



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,920A

DATE: 05/15/2003

TIME: 13:50:01

Input Set : A:\25835104.app

Output Set: N:\CRF4\05152003\J088920A.raw

3 <110> APPLICANT: KIKAKI, NORIYUKI  
 4 YASUHARA, YOSHIHIKO  
 5 HASEGAWA, JUNIC  
 7 <120> TITLE OF INVENTION: NOVEL CAPBONYL REDUCTASE, GENE THEREFOR, AND METHOD OF USING  
 THE SAME

9 <130> FILE REFERENCE: 025835/0104  
 11 <140> CURRENT APPLICATION NUMBER: 10/088,920A  
 13 <141> CURRENT FILING DATE: 2003-06-03  
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP01/06619  
 15 <151> PRIORITY FILING DATE: 2001-08-01  
 17 <150> PRIORITY APPLICATION NUMBER: JP 2000-232756  
 18 <151> PRIORITY FILING DATE: 2000-08-01  
 20 <160> NUMBER OF SEQ ID NOS: 11  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 277  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Microbacterioides  
 27 <210> SEQUENCE: 1  
 Met Arg Arg Met Thr Leu Pro Ser Gly Glu Ser Ile Pro Val Leu Gly  
 1 5 10 15  
 Gln Gly Thr Trp Gly Trp Gly Glu Asp Pro Gly Arg Arg Gly Asp Glu  
 20 25 30  
 Val Ala Ala Leu His Ala Gly Leu Glu Leu Gly Met Thr Leu Val Asp  
 35 40 45  
 Thr Ala Glu Met Tyr Ala Asp Gly Gly Ala Glu Glu Val Ala Gly Glu  
 50 55 60  
 Ala Leu Ala Gly Arg Arg Asp Glu Ala Phe Val Val Ser Lys Val Met  
 65 70 75 80  
 Pro Ser His Ala Ser Arg Ser Gly Thr Ile Ala Ala Cys Glu Arg Ser  
 85 90 95  
 Leu Lys Arg Leu Gly Thr Asp Arg Ile Asp Leu Tyr Leu Leu His Trp  
 100 105 110  
 Gln Gly Arg Tyr Pro Leu Gln Asp Thr Val Ala Ala Phe His Gln Leu  
 115 120 125  
 Val Glu Asp Arg Lys Ile Arg Tyr Ile Gly Val Ser Ile Asp Ile  
 130 135 140  
 Arg Ala Asp Ile Asp Ile Asp Val Val Val Val Val Val Val Val Val  
 145 150 155 160  
 Asp  
 165 170 175  
 Leu Leu Pro Ile Gln Asp Ala Asp His Gln Leu Pro Val Met Ala Tyr Ile  
 180 185 190  
 Pro Ile Glu Ser Gly Arg Ile Ile Asp Asp Thr Thr Leu Asn Asp Val  
 195 200 205

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/088,920A

DATE: 05/15/2003  
TIME: 13:50:01

Input Set : A:\25835104.app  
Output Set: N:\CRF4\05152003\J088920A.raw

67 Ala Ala Arg His Ser Val Ser Pro Ala Ala Ala Ala Leu Ala Trp Val  
68 110 215 220  
70 Leu Arg Arg Asp Ser Leu Cys Thr Ile Pro Lys Ala Ser Ser Pro Gln  
71 225 230 235 240  
72 His Val Arg Asp Asn Ala Thr Ala Leu Asp Val Glu Leu Thr Arg Glu  
73 245 250 255  
74 Asp Leu Asp Ala Leu Asp Arg Ala Phe Pro Pro Pro Ser Gly Pro Arg  
75 260 265 270  
76 Pro Leu Glu Met Leu  
77 275  
80 . . . 100 SEQ ID NO: 2  
84 . . . LENGTH: 1410  
85 . . . TYPE: DNA  
86 . . . ORGANISM: Micrococcus luteus  
88 . . . FEATURE:  
89 <221> NAME/KEY: CDS  
90 <222> LOCATION: (108)..(938)  
91 <400> SEQUENCE: 2  
92 ggtttttttt gttttttttt aaggccggcc cgggtttttttt cggccggcc cttttttttt 60  
93 cttttttttt cttttttttt gtccggccac agggccaaacca gaaggaaatgt atccgggg atg cgg cgg 116  
94 Met Arg Arg  
95 1  
96 atg cttt 164  
100 Met Thr Leu Pro Ser Gly Glu Ser Ile Pro Val Leu Gly Glu Gly Thr  
101 110 115  
102 tttttttttt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt 212  
104 Trp Gly Trp Gly Glu Asp Pro Gly Arg Arg Gly Asp Glu Val Ala Ala  
105 110 115 30 35  
107 cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 260  
108 Leu His Ala Gly Leu Glu Leu Gly Met Thr Leu Val Asp Thr Ala Glu  
109 40 45 50  
111 atg tttt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt 308  
112 Met Tyr Ala Asp Gly Gly Ala Glu Glu Val Ala Gly Glu Ala Leu Ala  
113 55 60 65  
115 ggtttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 356  
116 Gly Arg Arg Asp Glu Ala Phe Val Val Ser Lys Val Met Pro Ser His  
117 70 75 80  
119 gttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 404  
120 Ala Ser Arg Ser Gly Thr Ile Ala Ala Cys Glu Arg Ser Leu Lys Arg  
121 65 90 95  
123 cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 452  
124 Leu Gly Thr Asp Arg Ile Asp Leu Tyr Leu Leu His Trp Glu Gly Arg  
125 100 105 110 115  
127 tttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 500  
128 Tyr Pro Leu Glu Asp Thr Val Ala Ala Phe His Glu Leu Val Glu Asp  
129 130 131 132 133  
131 gttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 548  
132 Lys  
133 135 140 145

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,920A

DATE: 05/15/2003

TIME: 13:50:01

Input Set : A:\25835104.app

Output Set: N:\CRF4\05152003\J088920A.raw

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/088,920A

DATE: 05/15/2003  
TIME: 13:50:01

Input Set : A:\25835104.app  
Output Set: N:\CRF4\05152003\J088920A.raw

W--> 206 gayacngcng aratgtaygc	20
209 <210> SEQ ID NO: 4	
210 <211> LENGTH: 20	
211 <212> TYPE: DNA	
212 <213> ORGANISM: Artificial Sequence	
214 <220> FEATURE:	
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer	
217 <220> FEATURE:	
218 <221> NAME/KEY: modified_base	
219 <222> LOCATION: (4)	
220 <223> OTHER INFORMATION: a, t, c, g, other or unknown	
221 <220> FEATURE:	
222 <221> NAME/KEY: modified_base	
223 <222> LOCATION: (5)	
224 <223> OTHER INFORMATION: a, t, c, g, other or unknown	
227 <210> SEQUENCE: 4	
W--> 228 tcytcnacna gytgrtgaa	20
231 <210> SEQ ID NO: 5	
232 <211> LENGTH: 26	
233 <212> TYPE: DNA	
234 <213> ORGANISM: Artificial Sequence	
236 <220> FEATURE:	
237 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer	
238 <240> SEQUENCE: 5	
3 <210> SEQ ID NO: 6	26
4 <211> LENGTH: 11	
5 <212> TYPE: DNA	
6 <213> ORGANISM: Artificial Sequence	
247 <220> FEATURE:	
248 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer	
251 <240> SEQUENCE: 6	
252 <210> SEQ ID NO: 7	32
253 <211> LENGTH: 46	
257 <212> TYPE: DNA	
258 <213> ORGANISM: Artificial Sequence	
263 <220> FEATURE:	
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer	
265 <240> SEQUENCE: 7	
266 <210> SEQ ID NO: 8	46
267 <211> LENGTH: 29	
268 <212> TYPE: DNA	
270 <213> ORGANISM: Artificial Sequence	
271 <220> FEATURE:	
273 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer	
274 <240> SEQUENCE: 8	
276 caggagctt tacagcattt ccagtggtc	29

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,920A

DATE: 05/15/2003

TIME: 13:50:01

Input Set : A:\25835104.app

Output Set: N:\CRF4\05152003\J088920A.raw

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/088,920A

DATE: 05/15/2003  
TIME: 13:50:02

Input Set : A:\25835104.app  
Output Set: N:\CRF4\05152003\J088920A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 6,9  
Seq#:4; N Pos. 6,9